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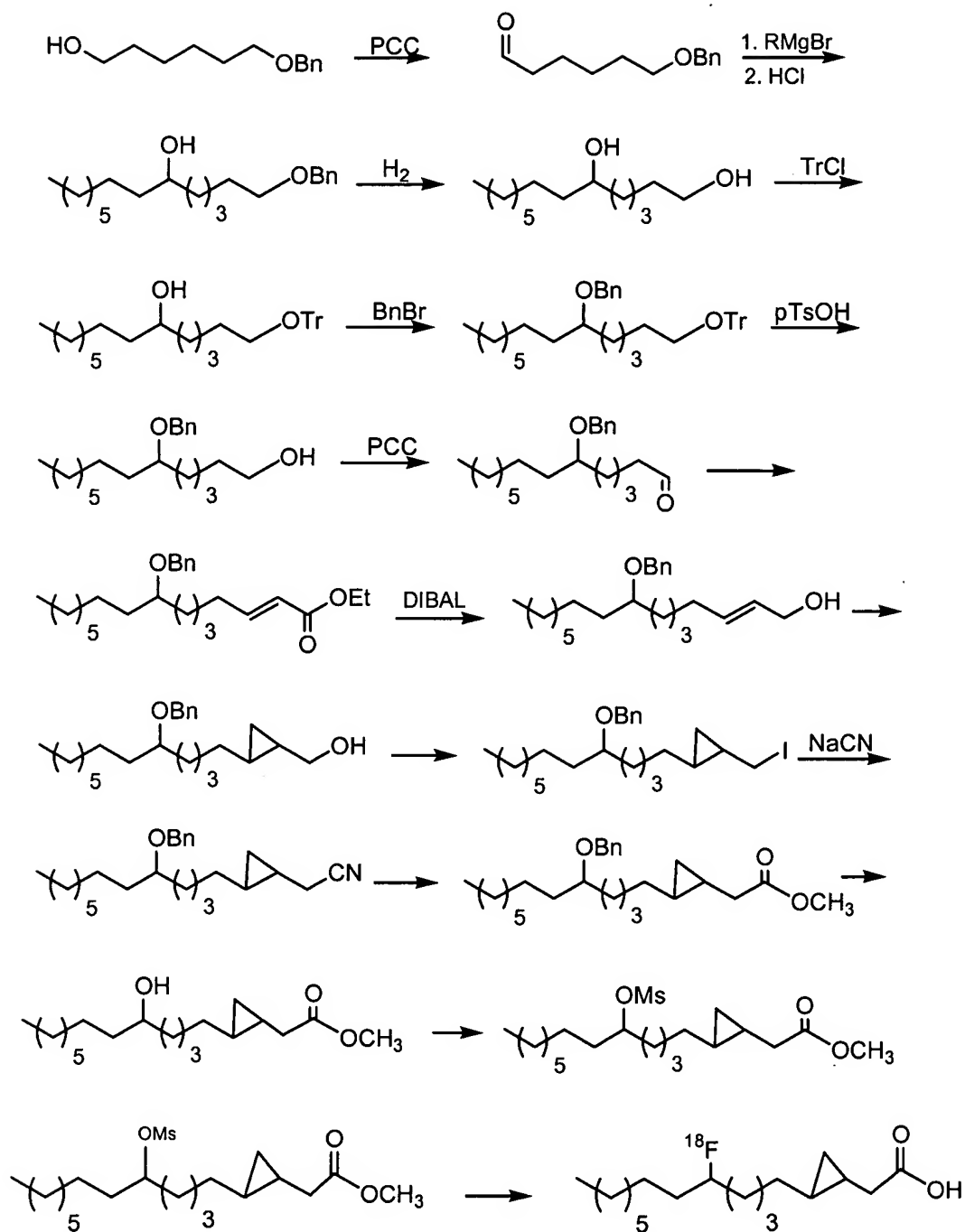
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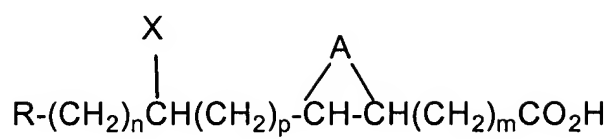
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Synthesis of [^{18}F]-9-Fluoro-3,4-Cyclopropylheptadecanoic Acid

FIG.1

Aliphatic-halide



A = (CH₂)_y, O, S

y = 1, 2, 3, 4

cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

p = 0 - 6

R = CH₃

X = ¹⁸F or ¹²³I

FIG.2

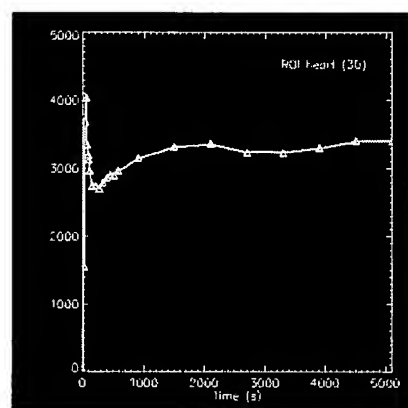


FIG. 3

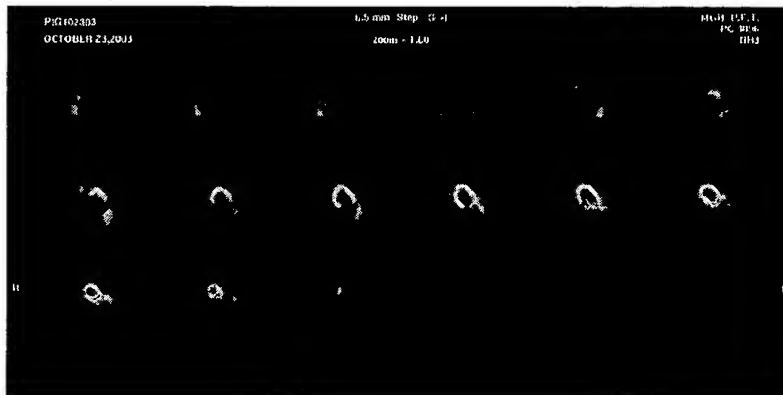


FIG. 4

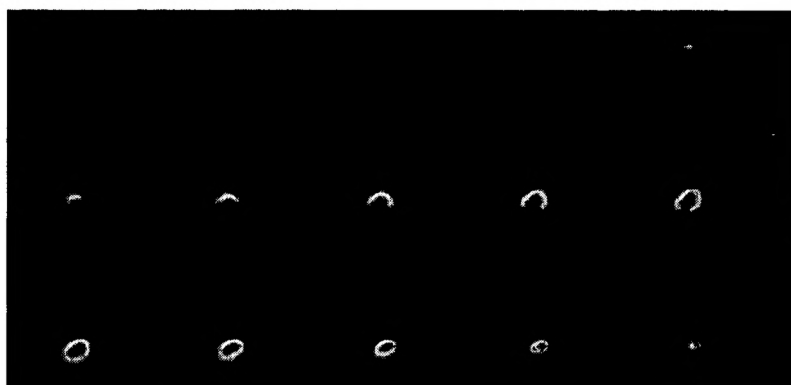


FIG. 5

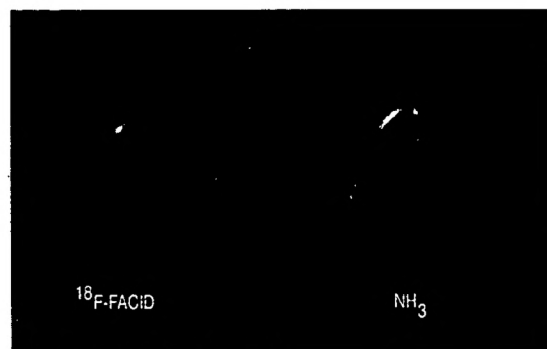


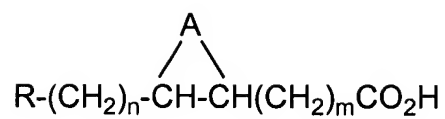
FIG. 6



FIG.7



FIG. 8



A = (CH₂)_x, O, S

x = 1, 2, 3, 4

cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

R = ¹⁸F-phenyl or ¹²³I-phenyl

examples:

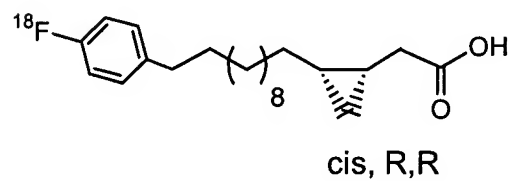
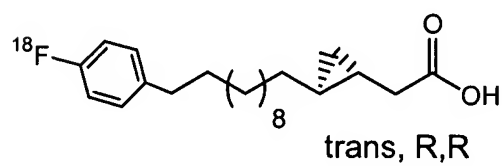
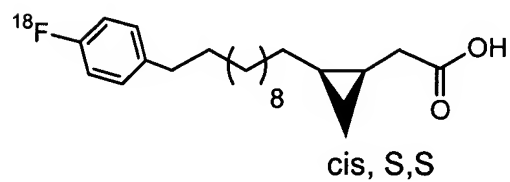
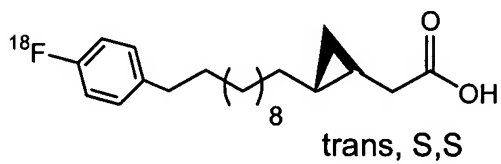
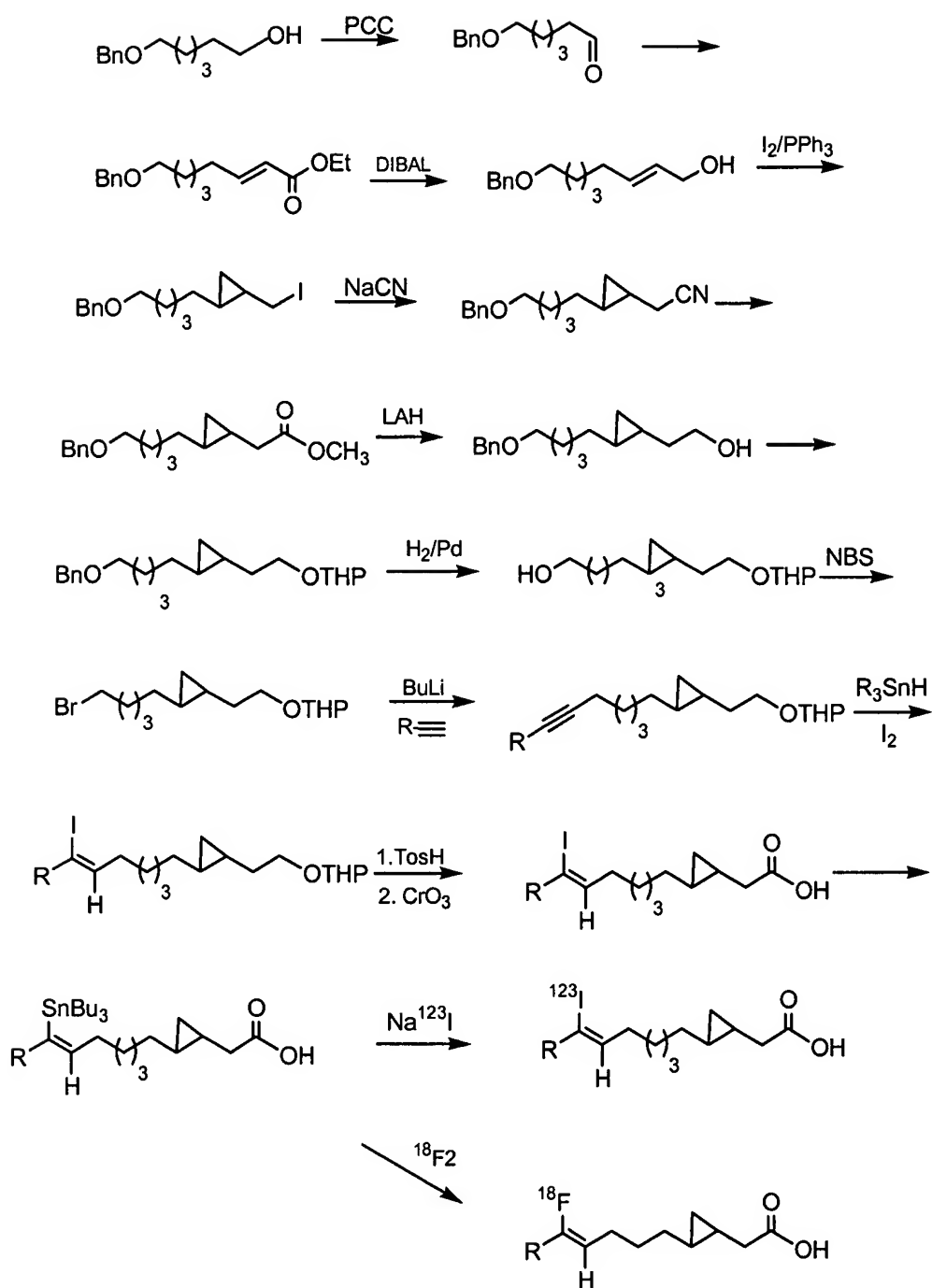


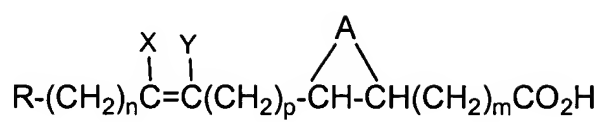
FIG.9



Synthesis of Endo- [^{18}F]Fluoro- or [^{123}I]Iodo-3,4-Cyclopropylheptadecanoic Acid

FIG.10

Endo-halovinyl



X = ^{18}F or ^{123}I , Y = H

X = H, Y = ^{18}F or ^{123}I

A = $(\text{CH}_2)_z$, O, S

z = 1, 2, 3, 4

cis and trans; R,R and S,S

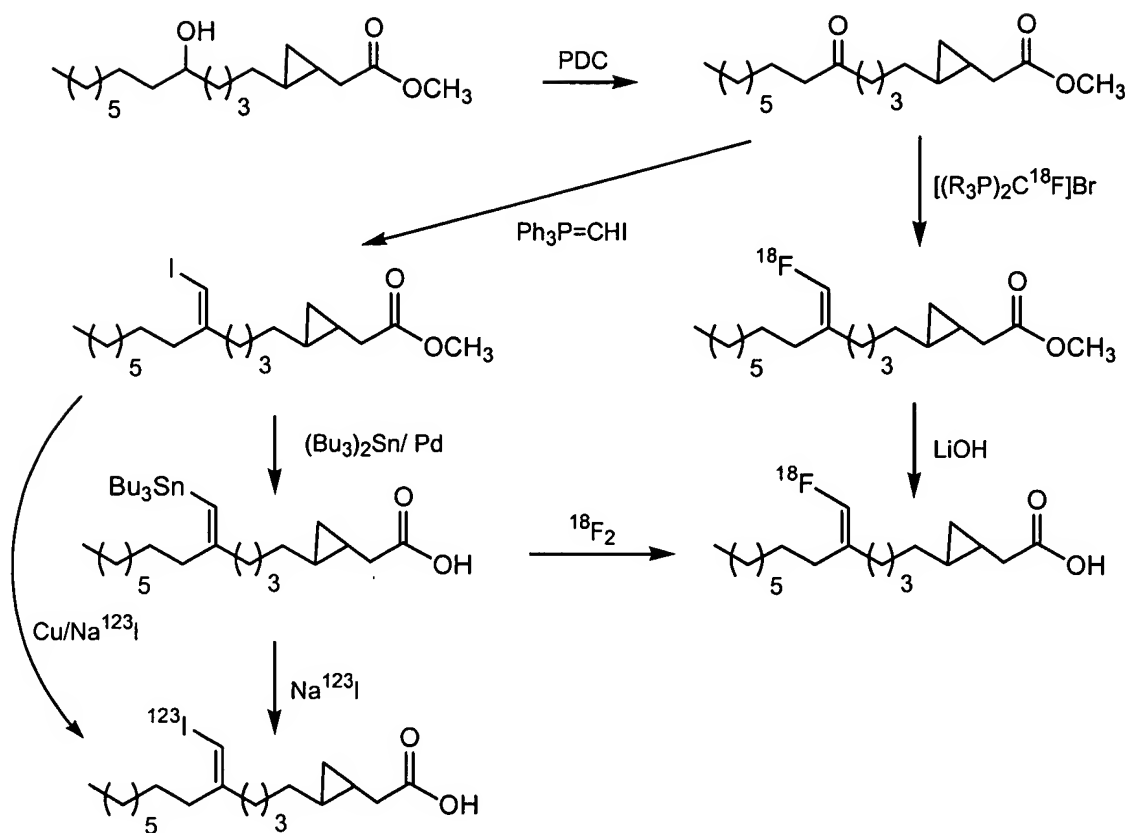
m = 0, 1, 2, 3, 4, etc

n = 14 - 8

p = 0 - 6

R = CH_3 , aryl, heterocyclic

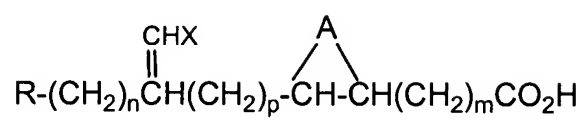
FIG.11



Synthesis of Exo- [^{18}F]Fluoro- or [^{123}I]iodo-3,4-Cyclopropylheptadecanoic Acid

FIG.12

Exo-halovinyl



A = (CH₂)_y, O, S

y = 1, 2, 3, 4

cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

p = 0 - 6

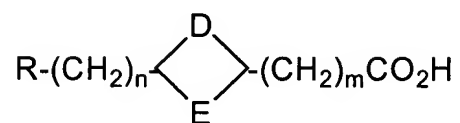
R = CH₃, aryl, heterocyclic

X = ¹⁸F or ¹²³I

FIG.13



Ring is 4 or 5 membered with all structural variations from FIG.2, 9, 11, and 13



D = CH₂ or CH₂CH₂

E = CH₂ or CH₂CH₂

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

R = CH₃, aryl, heterocyclic

FIG.15